

# Safety Data Sheet

Revision Date: 2/22/2022

## Section 1: Chemical Identification

### 1.1 Chemical Identification

**Product Name:** Cefpirome Sulfate with Sodium Carbonate  
**Alternative Name:**  
**Catalog Number:** C-702

### 1.2 Relevant Uses and Uses Advised Against

**Recommended use:** This product is not for use in humans. It is for research purposes only.

### 1.3 Supplier Contact Information

**Distributed by:** Gold Biotechnology, Inc.  
1328 Ashby Rd.  
St. Louis, MO 63132  
**Phone:** (314) 890-8778  
**Fax:** (314) 890-0503  
**Email:** [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)

### 1.4 Emergency Contact Information

**Emergency Phone:** (800)248-7609 (Monday-Friday, 9:00 a.m. – 5:00 p.m. CST)

## Section 2: Hazardous Information

### 2.1 GHS Classification

This product is not subject to hazardous classification

## Section 3: Composition/Information on Ingredients

### 3.1 Composition

**Identity:** Cefpirome Sulfate with Sodium Carbonate  
**IUPAC:**  
**Synonyms:**  
**CAS Number:** 98753-19-6; 497-19-8  
**Molecular Formula:**  $C_{22}H_{22}N_6O_5S_2 \cdot H_2SO_4$  and  $Na_2CO_3$   
**Molecular Weight:** 612.66 g/mol (cefpirome sulfate) + 105.99 g/mol (sodium bicarbonate)

## Section 4: First Aid Measures

### 4.1 Detailed First Aid Measures

**Gold Biotechnology**  
St. Louis, MO  
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**Email:** [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)

- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin:** Immediately wash skin copiously with soap and water. Take victim immediately to hospital. Consult a physician.
- Eye:** Immediately rinse out with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
- Ingestion:** Wash out mouth with water. Drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.
- Notes to Physician:** Treat symptomatically and supportively.

#### **4.2 Most Important Symptoms And Effects, Either Acute Or Delayed**

The most important known symptoms and effects are described in the labeling (see section 2). And /or in section 11.

#### **4.3 Indication of immediate medical attention and special treatment needed**

Not available

## **Section 5: Fire Fighting Measures**

### **5.1 Conditions of flammability:**

Not flammable or combustible.

### **5.2 Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.3 Specific hazards arising from the chemical**

During a fire, highly toxic gases may be generated by thermal decomposition or combustion – Unknown.

### **5.4 Specific protective actions for fire-fighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **Section 6: Accidental Release Measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### **6.2 Environmental precautions:**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up:**

Soak up with absorbent material, discard.

## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling:**

Always wear personal protective equipment (PPE, see section 8).

**7.2 Conditions for safe storage, including and incompatibilities:**

Keep container tightly closed.

Store at 4°C.

## **Section 8: Exposure Controls / Personal Protection**

### **8.1 Control Parameters:**

Contains no substances with occupational exposure limit values.

### **8.2: Appropriate engineering controls:**

Contains no substances with occupational exposure limit values.

### **8.3 Personal Protective Equipment (PPE):**

**Eye/Face Protection:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique - without touching outer surface of glove - to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Other Protective Clothing or Equipment:** Wear appropriate protective clothing to prevent exposure.

## **Section 9: Physical and Chemical Properties**

### **9.1 General chemical and physical properties**

<b>Appearance:</b>	Solid
<b>Odor:</b>	Not Available
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	Not Available
<b>Melting Point:</b>	Not Available

<b>Freezing Point:</b>	Not Available
<b>Boiling Point/Range:</b>	Not Available
<b>Flash Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	Not Available
<b>Solubility:</b>	Not Available
<b>Partition Coefficient n-octanol/water:</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity:</b>	Not Available

## **Section 10: Stability and Reactivity Data**

### **10.1 Reactivity:**

Not available

### **10.2 Chemical Stability:**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions:**

Not available.

### **10.4 Conditions to avoid:**

Incompatible materials.

### **10.5 Incompatible materials:**

Strong oxidizing agents.

### **10.6 Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions. - Unknown.

## **Section 11: Toxicological Information**

### **11.1 Toxicological effects**

**Acute toxicity:**

**Skin corrosion/irritation:**

Not available.

**Respiratory or skin sensitization:**

Not available.

**Germ cell mutagenicity:**

Not available.

**Carcinogenicity:**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:**

Not available.

**STOT-single exposure:**

Not available.

**STOT-repeated exposure:**

Not available.

**Aspiration hazard:**

Not available.

**Likely routes of exposure:**

Respiratory organs, mouth, skin, and eyes.

**Symptoms of exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **Section 12: Ecological Information**

**12.1 Toxicity:**

Not available.

**12.2 Persistence and degradability:**

Inherent biodegradability.

**12.3 Bioaccumulative potential:**

Does not bioaccumulate.

**12.4 Mobility in soil:**

Not available.

**12.5 Other adverse effects:**

None.

**Section 13 Disposal Considerations**

Dispose of product in accordance with local rules and regulations.

**Section 14: Transport Information**

**14.1 US Department of Transportation (DOT)**

This material is considered to be non-hazardous for transport.

**14.2 International Maritime Dangerous Goods (IMDG):**

This material is considered to be non-hazardous for transport.

**14.2 International Air Transportation Association (IATA)**

This material is considered to be non-hazardous for transport.

**Section 15: Regulatory Information**

**SARA 302 Components:**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:**

No SARA Hazards.

**Massachusetts Right To Know Components:**

Cefpirome Sulfate with Sodium Carbonate

CAS - No.

98753-19-6; 497-19-8

**Pennsylvania Right To Know Components:**

Cefpirome Sulfate with Sodium Carbonate

CAS - No.

98753-19-6; 497-19-8

**New Jersey Right To Know Components:**

Cefpirome Sulfate with Sodium Carbonate

CAS - No.

98753-19-6; 497-19-8

**California Prop. 65 Components:**

This product does not contain any chemical known to the State of California to cause cancer, birth, or any other reproductive defects.

**Section 16: Other Information**

While Gold Biotechnology, Inc. believes the information contained herein to be true and

**Gold Biotechnology**

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accurate, it has relied on information provided by others. Gold Biotechnology, INC. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. Gold Biotechnology, Inc. disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.

**Preparation Information**

Gold Biotechnology  
Content/Marketing Department  
(800) 248-7609  
Last updated: 2/22/2022

## Section 1: Chemical Identification

### 1.1 Chemical Identification

**Product Name:** Cefpirome Sulfate  
**Alternative Name:** HR 810 sulfate  
**Catalog Number:** C-702

### 1.2 Relevant Uses and Uses Advised Against

**Recommended use:** This product is not for use in humans. It is for research purposes only.

### 1.3 Supplier Contact Information

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1328 Ashby Rd.  
St. Louis, MO 63132  
**Phone:** (314) 890-8778  
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**Email:** [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)

### 1.4 Emergency Contact Information

**Emergency Phone:** (800)248-7609 (Monday-Friday, 9:00 a.m. – 5:00 p.m. CST)

## Section 2: Hazardous Information

### 2.1 GHS Classification

Respiratory Sensitizer (Category 1)  
Skin Sensitizer (Category 1)  
Reproductive Toxicity (Category 1)

### 2.2 GHS Label Elements, Including Precautionary statements



**DANGER!**

### 2.3 Hazard Statements

**H317:** May cause an allergic skin reaction  
**H334:** May cause allergy or asthma symptoms or breathing difficulties if inhaled  
**H361:** Suspected of damaging fertility or the unborn child

### 2.4 Precautionary Statements

**P201:** Obtain special instructions before use  
**P202:** Do not handle until all safety precautions have been read and understood  
**P261:** Avoid breathing dust/fume/gas/mist/vapours/spray  
**P272:** Contaminated work clothing should not be allowed out of the workplace  
**P280:** Wear protective gloves/protective clothing/eye protection/face protection  
**P281:** Use personal protective equipment as required



- P285:** In case of inadequate ventilation wear respiratory protection  
**P302+352:** IF ON SKIN: Wash with soap and water  
**P304+341:** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
**P308+313:** IF exposed or concerned: Get medical advice/attention  
**P321:** Specific treatment (see First Aid Measures on this label)  
**P333+313:** If skin irritation or a rash occurs: Get medical advice/attention  
**P342+311:** If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
**P362:** Take off contaminated clothing and wash before reuse  
**P405:** Store locked up  
**P501:** Dispose of contents/container to an approved waste disposal plant

## **Section 3: Composition/Information on Ingredients**

### **3.1 Composition**

<b>Identity:</b>	Cefpirome Sulfate
<b>IUPAC:</b>	(7R)-7-[[[(2Z)-2-(2-amino-1,3-thiazol-5-yl)-2-methoxyiminoacetyl]amino]-3-(6,7-dihydro-5H-cyclopenta [b]pyridin-1-ium-1-ylmethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0] oct-2-ene-2-carboxylate;sulfuric acid
<b>Synonyms:</b>	HR 810 sulfate
<b>CAS Number:</b>	98753-19-6
<b>Molecular Formula:</b>	$C_{22}H_{22}N_6O_5S_2 \cdot H_2SO_4$
<b>Molecular Weight:</b>	612.66 g/mol

## **Section 4: First Aid Measures**

### **4.1 Detailed First Aid Measures**

<b>Inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Skin:</b>	Immediately wash skin copiously with soap and water. Take victim immediately to hospital. Consult a physician.
<b>Eye:</b>	Immediately rinse out with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
<b>Ingestion:</b>	Wash out mouth with water. Drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.
<b>Notes to Physician:</b>	Treat symptomatically and supportively.

### **4.2 Most Important Symptoms And Effects, Either Acute Or Delayed**

The most important known symptoms and effects are described in the labeling (see section 2). And /or in section 11.

### **4.3 Indication of immediate medical attention and special treatment needed**

Not available

## **Section 5: Fire Fighting Measures**

### **5.1 Conditions of flammability:**

Not flammable or combustible.

### **5.2 Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.3 Specific hazards arising from the chemical**

During a fire, highly toxic gases may be generated by thermal decomposition or combustion  
– Carbon Oxides, Nitrogen Oxides (NOx), Sulfur Oxides.

### **5.4 Specific protective actions for fire-fighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **Section 6: Accidental Release Measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### **6.2 Environmental precautions:**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up:**

Soak up with absorbent material, discard.

## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling:**

Always wear personal protective equipment (PPE, see section 8).

### **7.2 Conditions for safe storage, including and incompatibilities:**

Keep container tightly closed.

Store desiccated at -20°C.

## **Section 8: Exposure Controls / Personal Protection**

### **8.1 Control Parameters:**

Contains no substances with occupational exposure limit values.

### **8.2: Appropriate engineering controls:**

Contains no substances with occupational exposure limit values.

### **8.3 Personal Protective Equipment (PPE):**

**Eye/Face Protection:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as

NIOSH (US) or EN 166(EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique - without touching outer surface of glove - to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Other Protective Clothing or Equipment:** Wear appropriate protective clothing to prevent exposure.

## **Section 9: Physical and Chemical Properties**

### **9.1 General chemical and physical properties**

<b>Appearance:</b>	White crystalline powder
<b>Odor:</b>	Not Available
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	(2% in water) 1.3-2.5
<b>Melting Point:</b>	198-202°C
<b>Freezing Point:</b>	Not Available
<b>Boiling Point/Range:</b>	Not Available
<b>Flash Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	Not Available
<b>Solubility:</b>	Freely soluble in water
<b>Partition Coefficient n-octanol/water:</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available

**Decomposition**

**Temperature:** Not Available

**Viscosity:** Not Available

## **Section 10: Stability and Reactivity Data**

### **10.1 Reactivity:**

Not available

### **10.2 Chemical Stability:**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions:**

Not available.

### **10.4 Conditions to avoid:**

Incompatible materials.

### **10.5 Incompatible materials:**

Strong oxidizing agents.

### **10.6 Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions. - Carbon Oxides, Nitrogen Oxides (NOx), Sulfur Oxides

## **Section 11: Toxicological Information**

### **11.1 Toxicological effects**

**Acute toxicity:**

Cefpirome Sulfate	Oral:	LD <sub>50</sub> (Rat) = >8,000 mg/kg Remarks: Behavioral: Altered sleep time threshold. Respiration: Respiratory depression
Cefpirome Sulfate	Oral:	LD <sub>50</sub> (Rat) = 16,200 mg/kg
Cefpirome Sulfate	Intraperitoneal:	TD <sub>50</sub> (Rat) = 36,000 mg/kg/90D-I Remarks: Kidney, Ureter, Bladder: (e.g. TP, bilirubin, cholesterol). Changes in erythrocyte (RBC) count.
Cefpirome Sulfate	Intraperitoneal:	LD <sub>50</sub> (Rat) = 5,800 mg/kg
Cefpirome Sulfate	Intraperitoneal:	TD <sub>50</sub> (monkey) = 45 g/kg/90 D- I Remarks: Kidney, Ureter, Other changes in urine composition. Blood: Changes in composition (e.g. TP, bilirubin, cholesterol). Nutritional and Gross Metabolic: Weight loss or decreased weight gain
Cefpirome Sulfate	Intraperitoneal:	TD <sub>50</sub> (Monkey) = 75,200 mg/kg/26W-I Remarks: Kidney, Ureter,

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bladder weight. Blood: Changes in erythrocyte (RBC) count.

Cefpirome Sulfate	Intravenous:	LD <sub>50</sub> (Rat) = 1,900 mg/kg
Cefpirome Sulfate	Intravenous:	LD <sub>50</sub> (Mouse) = 2,400 mg/kg
Cefpirome Sulfate	Subcutaneous:	LD <sub>50</sub> (Rat) = >10,000 mg/kg Remarks: Behavioral: Altered sleep time Lungs, Thorax or Respiration: Respiratory depression

**Skin corrosion/irritation:**

Not available.

**Respiratory or skin sensitization:**

β-lactams are a broad class of antibiotics and include penicillins and cephalosporins. Some individuals experience adverse immunological responses or allergic reactions to β-lactam antibiotics. Because of the similarity in structure between penicillins and cephalosporins, those who are allergic to one class of agents may manifest cross - allergenicity when exposed to a member of another class

**Germ cell mutagenicity:**

Not available.

**Carcinogenicity:**

- IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
- NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
- OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:**

Intraperitoneal TD<sub>LO</sub> (Female Rat) - 7-17 days after conception: 8,800 mg/kg  
Remarks, Effects on Embryo or Fetus: Extra-embryonic structures (e.g. placenta, umbilical cord). Fetotoxicity (except death, e.g. stunted fetus). Physical effects on newborn

Intravenous TD<sub>LO</sub> (Female Rat) - 7-17 days after conception: 8,800 mg/kg  
Remarks, Maternal Effects: Other effects. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g. stunted fetus)

**STOT-single exposure:**

Not available.

**STOT-repeated exposure:**

Not available.

**Aspiration hazard:**

Not available.

**Likely routes of exposure:**

Respiratory organs, mouth, skin, and eyes.

**Symptoms of exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information:**

RTECS: UW8970000

## **Section 12: Ecological Information**

**12.1 Toxicity:**

Not available.

**12.2 Persistence and degradability:**

Inherent biodegradability.

**12.3 Bioaccumulative potential:**

Does not bioaccumulate.

**12.4 Mobility in soil:**

Not available.

**12.5 Other adverse effects:**

None.

## **Section 13 Disposal Considerations**

Dispose of product in accordance with local rules and regulations.

## **Section 14: Transport Information**

**14.1 US Department of Transportation (DOT)**

This material is considered to be non-hazardous for transport.

**14.2 International Maritime Dangerous Goods (IMDG):**

This material is considered to be non-hazardous for transport.

**14.2 International Air Transportation Association (IATA)**

This material is considered to be non-hazardous for transport.

## **Section 15: Regulatory Information**

**SARA 302 Components:**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:**

No SARA Hazards.

**Massachusetts Right To Know Components:**

Cefpirome Sulfate

CAS - No.

98753-19-6

**Pennsylvania Right To Know Components:**

Cefpirome Sulfate

CAS - No.

98753-19-6

**New Jersey Right To Know Components:**

Cefpirome Sulfate

CAS - No.

98753-19-6

**California Prop. 65 Components:**

This product does not contain any chemical known to the State of California to cause cancer, birth, or any other reproductive defects.

## **Section 16: Other Information**

While Gold Biotechnology, Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Gold Biotechnology, INC. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. Gold Biotechnology, Inc. disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.

**Preparation Information**

Gold Biotechnology

Content/Marketing Department

(800) 248-7609

Last updated: 2/22/2022

**Gold Biotechnology**

St. Louis, MO

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Email: [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)

## Section 1: Chemical Identification

### 1.1 Chemical Identification

Product Name: Sodium Carbonate

Alternative Name:

Catalog Number: C-702

### 1.2 Relevant Uses and Uses Advised Against

Recommended use: This product is not for use in humans. It is for research purposes only.

### 1.3 Supplier Contact Information

Distributed by: Gold Biotechnology, Inc.  
1328 Ashby Rd.  
St. Louis, MO 63132

Phone: (314) 890-8778

Fax: (314) 890-0503

Email: [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)

### 1.4 Emergency Contact Information

Emergency Phone: (800)248-7609 (Monday-Friday, 9:00 a.m. – 5:00 p.m. CST)

## Section 2: Hazardous Information

### 2.1 GHS Classification

Eye Irritation (Category 2A)

### 2.2 GHS Label Elements, Including Precautionary statements



Warning

### 2.3 Hazard Statements

H319: Causes serious eye irritation

### 2.4 Precautionary Statements

P264: Wash skin thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P337+313: If eye irritation persists get medical advice/attention

## Section 3: Composition/Information on Ingredients

### 3.1 Composition

Identity: Sodium Carbonate

Gold Biotechnology

St. Louis, MO

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Web: [www.goldbio.com](http://www.goldbio.com)

Email: [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)



<b>IUPAC:</b>	disodium;carbonate
<b>Synonyms:</b>	Soda ash
<b>CAS Number:</b>	497-19-8
<b>Molecular Formula:</b>	Na <sub>2</sub> CO <sub>3</sub>
<b>Molecular Weight:</b>	105.99

## **Section 4: First Aid Measures**

### **4.1 Detailed First Aid Measures**

<b>Inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Skin:</b>	Immediately wash skin copiously with soap and water. Take victim immediately to hospital. Consult a physician.
<b>Eye:</b>	Immediately rinse out with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
<b>Ingestion:</b>	Wash out mouth with water. Drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.
<b>Notes to Physician:</b>	Treat symptomatically and supportively.

### **4.2 Most Important Symptoms And Effects, Either Acute Or Delayed**

The most important known symptoms and effects are described in the labeling (see section2). And /or in section 11.

### **4.3 Indication of immediate medical attention and special treatment needed**

Not available

## **Section 5: Fire Fighting Measures**

### **5.1 Conditions of flammability:**

Not flammable or combustible.

### **5.2 Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.3 Specific hazards arising from the chemical**

During a fire, highly toxic gases may be generated by thermal decomposition or combustion – Carbon oxides, Sodium oxides.

### **5.4 Specific protective actions for fire-fighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **Section 6: Accidental Release Measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate

ventilation.

**6.2 Environmental precautions:**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:**

Soak up with absorbent material, discard.

## **Section 7: Handling and Storage**

**7.1 Precautions for safe handling:**

Always wear personal protective equipment (PPE, see section 8).

**7.2 Conditions for safe storage, including and incompatibilities:**

Keep container tightly closed.

Store at <4°C.

## **Section 8: Exposure Controls / Personal Protection**

**8.1 Control Parameters:**

Contains no substances with occupational exposure limit values.

**8.2: Appropriate engineering controls:**

Contains no substances with occupational exposure limit values.

**8.3 Personal Protective Equipment (PPE):**

**Eye/Face Protection:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique - without touching outer surface of glove - to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Other Protective Clothing or Equipment:** Wear appropriate protective clothing to prevent exposure.

## **Section 9: Physical and Chemical Properties**

### **9.1 General chemical and physical properties**

<b>Appearance:</b>	White Powder
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	12 at 106 g/L at 25°C
<b>Melting Point:</b>	851°C
<b>Freezing Point:</b>	Not Available
<b>Boiling Point/Range:</b>	1600°C
<b>Flash Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	Not Available
<b>Solubility:</b>	Soluble in water
<b>Partition Coefficient n-octanol/water:</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	400°C
<b>Viscosity:</b>	Not Available

## **Section 10: Stability and Reactivity Data**

### **10.1 Reactivity:**

Not available

### **10.2 Chemical Stability:**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions:**

Not available.

### **10.4 Conditions to avoid:**

Incompatible materials.

### **10.5 Incompatible materials:**

Strong oxidizing agents.

### **10.6 Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions. – Carbon oxides, Sodium oxides.

## **Section 11: Toxicological Information**

### **11.1 Toxicological effects**

#### **Acute toxicity:**

Sodium Carbonate Oral: LD<sub>50</sub> (Rat) - 2.8 g/kg

Sodium Carbonate Skin: LD<sub>50</sub> (Rabbit) - > 2,000 mg/kg

#### **Skin corrosion/irritation:**

Skin - Rabbit

Result: No skin irritation - 4 h  
(OECD Test Guideline 404)

Eyes - Rabbit

Result: Eye irritation  
(US-EPA)

#### **Respiratory or skin sensitization:**

Not available.

#### **Germ cell mutagenicity:**

Not available.

#### **Carcinogenicity:**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity:**

Not available.

#### **STOT-single exposure:**

Not available.

#### **STOT-repeated exposure:**

Not available.

#### **Aspiration hazard:**

Not available.

**Likely routes of exposure:**

Respiratory organs, mouth, skin, and eyes.

**Symptoms of exposure:**

Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information:**

RTECS: VZ4050000

## **Section 12: Ecological Information**

**12.1 Toxicity:**

Toxicity to fish - Static test - LC50 - *Lepomis macrochirus* (Bluegill sunfish) - 300 mg/L- 96 h

Toxicity to daphnia and other aquatic invertebrates -Semi-static test - EC50 - *Ceriodaphnia* (water flea) - 220 - 227 mg/L - 48 h

**12.2 Persistence and degradability:**

Inherent biodegradability.

**12.3 Bioaccumulative potential:**

Does not bioaccumulate.

**12.4 Mobility in soil:**

Not available.

**12.5 Other adverse effects:**

None.

## **Section 13 Disposal Considerations**

Dispose of product in accordance with local rules and regulations.

## **Section 14: Transport Information**

**14.1 US Department of Transportation (DOT)**

This material is considered to be non-hazardous for transport.

**14.2 International Maritime Dangerous Goods (IMDG):**

This material is considered to be non-hazardous for transport.

**14.2 International Air Transportation Association (IATA)**

This material is considered to be non-hazardous for transport.

## **Section 15: Regulatory Information**

Gold Biotechnology

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**SARA 302 Components:**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:**

Acute Health Hazard

**Massachusetts Right To Know Components:**

Sodium Carbonate

CAS - No.

497-19-8

**Pennsylvania Right To Know Components:**

Sodium Carbonate

CAS - No.

497-19-8

**New Jersey Right To Know Components:**

Sodium Carbonate

CAS - No.

497-19-8

**California Prop. 65 Components:**

This product does not contain any chemical known to the State of California to cause cancer, birth, or any other reproductive defects.

## **Section 16: Other Information**

While Gold Biotechnology, Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Gold Biotechnology, INC. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. Gold Biotechnology, Inc. disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.

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